

## EAST Search History

| Ref # | Hits | Search Query                                                                                            | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---------------------------------------------------------------------------------------------------------|------------------------|------------------|---------|------------------|
| L1    | 1    | "20070076905"                                                                                           | US-PGPUB; USPAT        | OR               | ON      | 2007/09/17 11:37 |
| S1    | 2512 | (381/1,17,102,104,98,106.ccls.)                                                                         | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 16:30 |
| S2    | 1790 | S1 and (@ad<"20031225")                                                                                 | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 14:41 |
| S3    | 2663 | (381/1,17-18,102,104,98,106.ccls.)                                                                      | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 16:31 |
| S4    | 1911 | S3 and (@ad<"20031225")                                                                                 | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 18:37 |
| S5    | 27   | "5233664"                                                                                               | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 18:17 |
| S6    | 25   | ("4399328"   "4472834"   "4845759").PN. OR ("5233664").URPN.                                            | US-PGPUB; USPAT; USOCR | OR               | ON      | 2007/09/07 18:18 |
| S7    | 3    | ("5052685"   "5233664").PN. OR ("5953432").URPN.                                                        | US-PGPUB; USPAT; USOCR | OR               | ON      | 2007/09/07 18:29 |
| S8    | 0    | Keishi-Saito\$.in.                                                                                      | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 18:29 |
| S9    | 59   | Saito-Keishi\$.in.                                                                                      | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 18:37 |
| S10   | 1440 | (381/104-109.ccls.)                                                                                     | US-PGPUB; USPAT        | OR               | ON      | 2007/09/07 18:37 |
| S11   | 1063 | S10 and (@ad<"20031225")                                                                                | US-PGPUB; USPAT        | OR               | ON      | 2007/09/17 11:37 |
| S12   | 431  | (381/119.ccls.)                                                                                         | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 14:40 |
| S13   | 315  | S12 and (@ad<"20031225")                                                                                | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 15:00 |
| S14   | 807  | (381/98,102.ccls.)                                                                                      | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 15:00 |
| S15   | 548  | S14 and (@ad<"20031225")                                                                                | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 17:08 |
| S16   | 1179 | (381/104,106-107.ccls.)                                                                                 | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 17:07 |
| S17   | 888  | S16 and (@ad<"20031225")                                                                                | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 17:55 |
| S18   | 1065 | ((detect\$3 or peak\$1 or measur\$3) near2 (level\$1 or signal\$1)) same (gain\$1) and ("381"/\$.ccls.) | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 17:55 |
| S19   | 911  | S18 and (@ad<"20031225")                                                                                | US-PGPUB; USPAT        | OR               | ON      | 2007/09/08 17:55 |

## EAST Search History

|     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |    |    |                  |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----|----|------------------|
| S20 | 40   | ("2098561"   "2126929"   "3184550"   "3632886"   "3708631").PN. OR ("3772479").URPN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/09/08 18:31 |
| S21 | 6376 | ((equal\$3 or constant\$1) with (amplitude\$1 or level\$1 or signal\$1 or output\$4)) and ("381"/\$.ccls.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | US-PGPUB;<br>USPAT           | OR | ON | 2007/09/09 12:49 |
| S22 | 69   | (US-20060098827-\$ or US-20050063555-\$ or US-20040213421-\$ or US-20040213420-\$ or US-20040190734-\$ or US-20040138769-\$ or US-20040125967-\$ or US-20040071299-\$ or US-20040008851-\$ or US-20020090096-\$ or US-20020076072-\$ or US-20040136540-\$ or US-20020076066-\$ or US-20030031329-\$ or US-20030002693-\$ or US-20040136545-\$ or US-20040066938-\$).did. or (US-6970571-\$ or US-6721425-\$ or US-5892834-\$ or US-5757938-\$ or US-5706356-\$ or US-5694476-\$ or US-5471651-\$ or US-5371803-\$ or US-5369711-\$ or US-5303308-\$ or US-7251337-\$ or US-6516068-\$ or US-6498852-\$ or US-6094490-\$ or US-5233664-\$ or US-7110555-\$ or US-6534700-\$ or US-6501717-\$ or US-5200708-\$ or US-5774567-\$ or US-5621805-\$ or US-6430535-\$ or US-5708723-\$ or US-5404315-\$ or US-5359665-\$ or US-5175770-\$). did. or (US-5172358-\$ or US-4641361-\$ or US-4457014-\$ or US-4320534-\$ or US-3668322-\$ or US-6594368-\$ or US-5706357-\$ or US-5506910-\$ or US-5315660-\$ or US-5146504-\$ or US-5771295-\$ or US-5666424-\$ or US-5652800-\$ or US-5644640-\$ or US-5148491-\$ or US-5109419-\$ or US-4984273-\$ or US-4932059-\$ or US-4885792-\$ or US-4783819-\$ or US-3787629-\$ or US-3772479-\$ or US-5870480-\$ or US-5136650-\$ or US-4024344-\$). did. or (US-2098561-\$).did. | US-PGPUB;<br>USPAT           | OR | ON | 2007/09/09 11:45 |
| S23 | 49   | S21 and S22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT           | OR | ON | 2007/09/09 11:51 |

## EAST Search History

|     |      |                                                                                                                                                                |                    |    |    |                  |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|----|------------------|
| S24 | 1    | "20070076905"                                                                                                                                                  | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 12:49 |
| S25 | 1278 | ((equal\$3 or constant\$1 or balanc\$3 or equat\$3 or equivalent\$2) with (amplitude\$1 or level\$1 or signal\$1 or output\$4)) and (381/104-109,98,102.ccls.) | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 18:49 |
| S26 | 1109 | S25 and (@ad<"20031225")                                                                                                                                       | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 16:44 |
| S27 | 1335 | (381/98-103.ccls.)                                                                                                                                             | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 18:19 |
| S28 | 922  | S27 and (@ad<"20031225")                                                                                                                                       | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 18:20 |
| S29 | 635  | ((equal\$3 or constant\$1 or balanc\$3 or equat\$3 or equivalent\$2) with (amplitude\$1 or level\$1 or signal\$1 or output\$4)) and S28                        | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 18:49 |
| S30 | 374  | ((equal\$3 or constant\$1 or balanc\$3 or equat\$3 or equivalent\$2) near2 (amplitude\$1 or level\$1 or signal\$1 or output\$4)) and S28                       | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 19:22 |
| S31 | 1    | "20070076905"                                                                                                                                                  | US-PGPUB;<br>USPAT | OR | ON | 2007/09/09 19:22 |